Eltek
Fire & Safety

Fire & Safety

DELTA TECHNOLOGY

Fire Detection & Alarm Systems

# Assembly Guide
# DELTA Compact

## Control Panel

Protecting People Worldwide

351223.033

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# 1. Assembly

Congratulations! You have just bought a modern and secure *Delta* fire alarm control panel.

*Eltek* equipment has been packed to withstand the normal stresses of transport and storage. However, the equipment must not be exposed to impact, extreme humidity or major fluctuations in temperature (storage temp: -20°C to +70°C).

It is also important that the equipment is stored in its original packaging in suitable storage rooms until installation begins. Installation cables and other equipment is not included in the delivery.

The assembly of *DELTA Compact* primarily consists of:

1. **Unpacking**
   — identification and checking of equipment received
2. **Mechanical installation**
   — Fixing the cabinet to a wall
   — Assembly of all parts and modules
3. **Electrical installation**
   — Connecting the modules within the cabinet

Figure 1 Packaging

## Unpacking

The components are sensitive to electrostatic discharge (ESD). Circuit cards must be handled like sensitive electronic equipment, i.e. you must use special aids and handling methods which prevent damage in accordance with NS-ISO-9001.

Check that you have received all the parts.

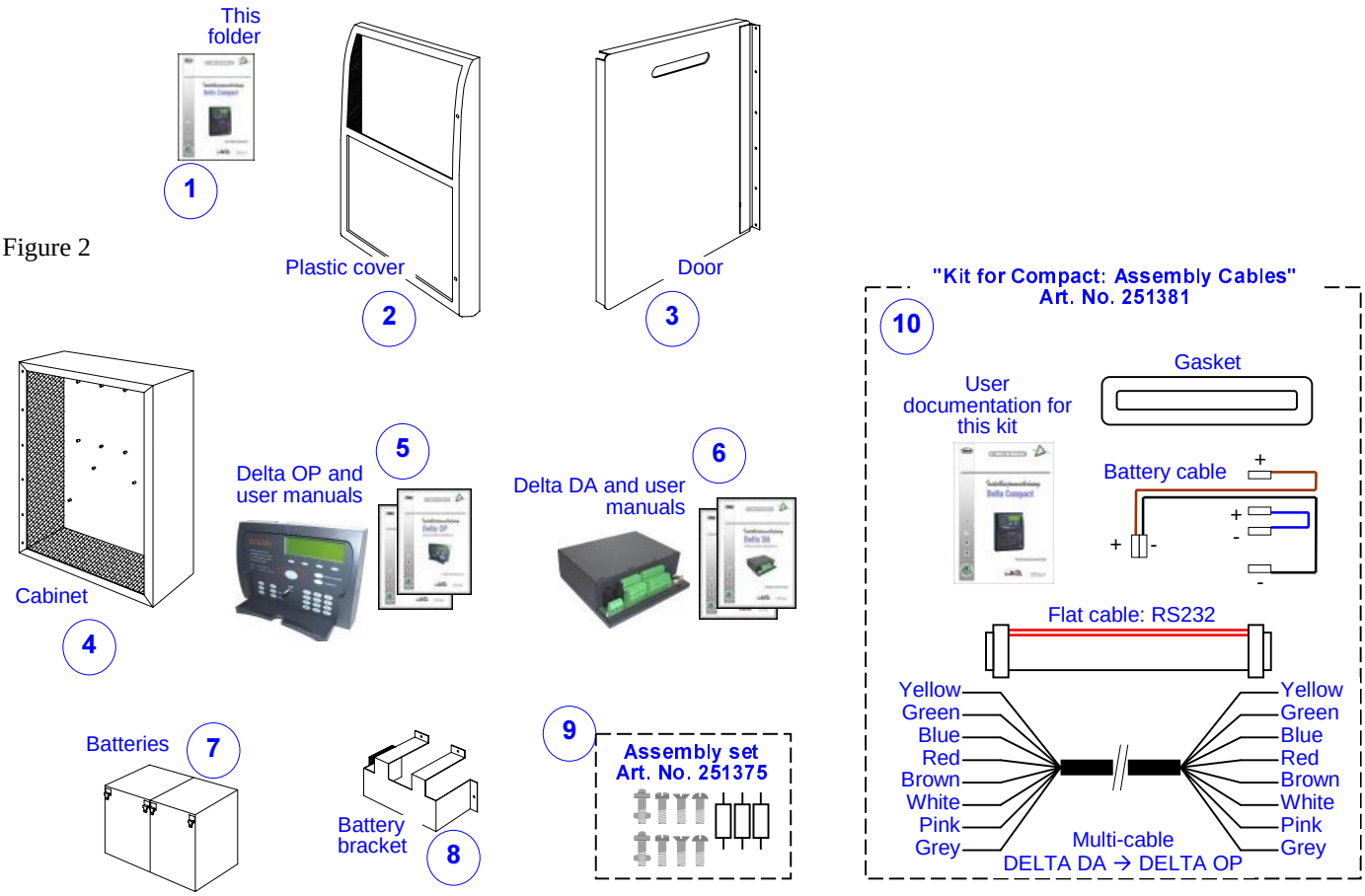


Figure 2

# Mechanical & Electrical Installation

This product is CE labelled and meets all requirements set out in relevant standards and directives.

☑ The electrical engineer is responsible for ensuring that the EMC properties of this product/system do not deteriorate during installation.

## Fastening the Cabinet

Begin by fastening the cabinet to the wall. The upper fastening holes in the cabinet are shaped like keyholes so that you can fasten the upper screws to the wall before hanging up the cabinet.

1. **Prepare the cable bushings in the cabinet, A,**
   and mount the nipples on the bushings
2. **Attach the cardboard template to the wall, B;**
   cut the cardboard template loose from the packaging, Figure 1, and attach it to the wall
3. **Screw the two upper screws halfway in,**
   use screws suitable to the fastening sub-surface (not included)
4. **Hang the cabinet on the screws and fasten it, A;**
   when the cabinet is hanging on them, fasten the lower screws (not included). Finish by tightening all four screws right up.

## Assembling the Modules

When the cabinet is fastened to the wall, begin assembling the modules:

5. **Fasten the batteries in the cabinet, C;**
   place the batteries at the bottom of the cabinet and screw the bracket into place with three MX nuts from the assembly set
6. **Fasten the DA module in the cabinet, D,**
   using six locking nuts from the assembly set
7. **Screw on the cabinet door, D,**
   by fastening the door hinge with six machine screws which are included in the assembly set
8. **Glue the gasket on the cabinet door,**
   as described in the folder, '*Kit for Compact: Assembly Cables*'. The folder accompanies the kit
9. **Fit the edging and fasten the OP module to the door, E,**
   by locking the module's front panel, fit the protective edgings on the cable bushings and fasten the mounting plate to the door using four locking nuts. Edgings and nuts come with the assembly set.
10. **Perform electrical installation,**
    as described in the folder, '*Kit for Compact: Assembly Cables*'. The folder accompanies the kit.
11. **Screw on the plastic cover and the door,**
    by fastening the cover in place, F, and screwing it tight with the 5 accompanying M3 sunken screws from the assembly set, G.. Finish by screwing the door tight using the accompanying Allen screws

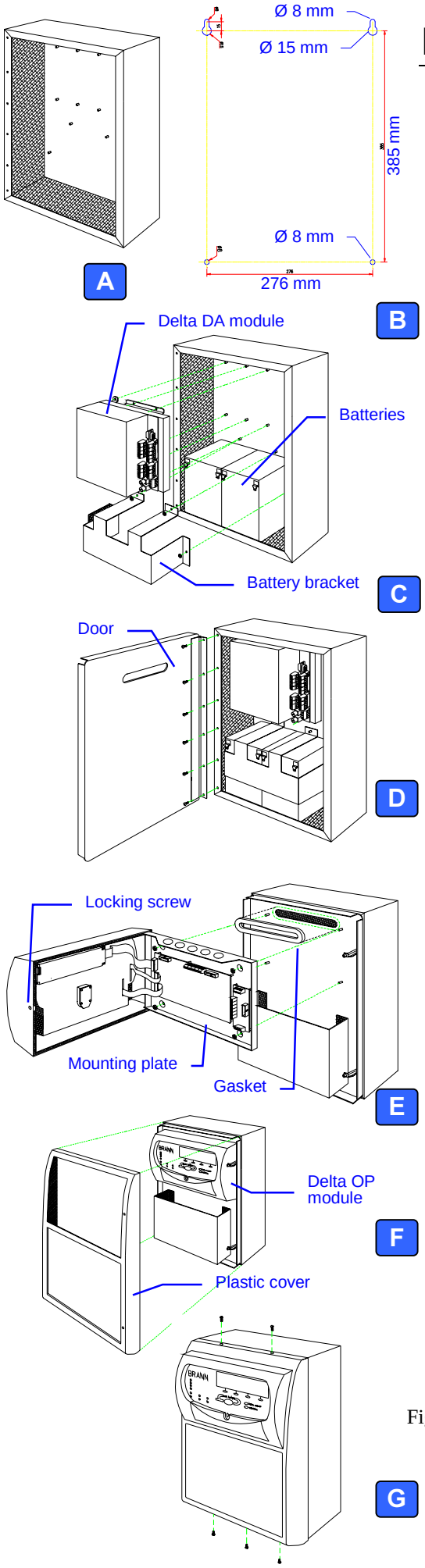


Figure 3 Assembly of *DELTA Compact*

✓ **Connecting external cables:**
For connecting external cables (detector loops, sounder circuits, etc.), see the manuals 'Installation Guide *DELTA DA*' and 'Installation Guide *DELTA OP*' which accompany these modules.

✓ **Set-up of *DELTA Compact*:**
For security reasons, the configuration of the *DELTA Compact* should be regarded as *access level 3* (in terms of EN 54). Only authorised and qualified personnel should have access to the set-up. Please contact *Eltek's* service engineer.

# 2. Technical Specification

| COMMUNICATION CHANNELS | | OP | DA | POWER SUPPLY | |
|---|---|---|---|---|---|
| COM1: | 9-pin D-Sub, male<br>RS232C serial bus | X | X | Mains input: | 185-265VAC 1.0A |
| | | | | Outputs: | +24V, 0.3A auxiliary power 1 |
| COM2: | 9-pin D-Sub, male<br>RS232C serial bus | X | | | +24V, 1A auxiliary power 2 |
| | | | | | +12V, 0.1A auxiliary power |
| CN1: | Terminal block connection<br>eBus , (requires use of<br>'*Kit for OP,DA: eBus Communication Board*') | X | X | | +24V, 4A charging batteries |
| **INPUTS AND OUTPUTS** | | | | **OTHER DATA** | |
| Detector Loops: | 2 analogue addressable or 4 conventional | | X | Dimensions: | 324x440x110 mm (WxHxD) |
| Alarm Outputs: | 3 sounder circuits (24V), or they can be used as 3 conventional detector loops | | X | Weight: | 20.5 kg including packaging |
| | | | | IP degree: | 42 |
| Control Outputs: | 2 'potential-free' control circuits, NC-C-NO | | X | Cabinet: | 1mm Aluzinc,<br>colour grey RAL7024 |
| Multi-function Output: | 1 sounder circuit or 1 conventional detector loop or 1 'potential-free' C-NO circuit | | X | | |
| | | | | Storage Temp: | -20°C to +70°C |
| HDFA Output: | 1 HDFA detection line | X | X | Art. No.: | 251050 |
| | 1 'potential-free' NC-C-NO fire brigade alarm circuit, (requires use of '*Kit for Compact: Fire Brigade Termination Card*') | X | | | |

For more detailed technical information, refer to 'User Guide *DELTA OP'* and 'User Guide *DELTA DA'*, which are supplied with the fire alarm control panel.

CE

This product is CE labelled and satisfies all requirements applicable to relevant standards and directives.

NS-EN ISO 9001&14001 Certified
GRØNER CERTIFICATION AS
NORWEGIAN ACCREDITATION No. S001 & S012
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